

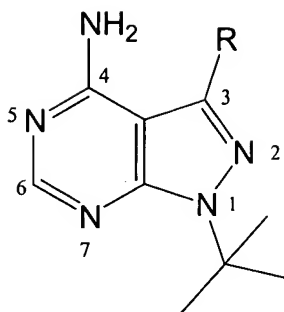
Listing of the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. An inhibitor that does not inhibit a catalytic activity of a wild-type enzyme but inhibits the same catalytic activity of the corresponding mutant enzyme, wherein the wild-type enzyme and the mutant enzyme are functionally identical.
2. The inhibitor of claim 1 that inhibits the catalytic activity of the mutant enzyme with an IC_{50} of less than about 200 nM.
3. A method of inhibiting a catalytic activity of a mutant enzyme comprising contacting the mutant enzyme with an inhibitor of claim 1.
4. An inhibitor that does not inhibit the growth of a cell expressing a wild-type enzyme but inhibits the growth of a cell expressing a mutant form of the wild-type enzyme, wherein the wild-type enzyme and the mutant form of the wild-type enzyme are functionally identical.
5. The inhibitor of claim 4, wherein the inhibitor is selected from the group comprising a protein kinase inhibitor and a methyltransferase inhibitor.
6. A method of inhibiting the growth of a cell expressing a mutant enzyme comprising contacting the cell with an inhibitor of claim 4.

Claims 7-60 (canceled)

61. A compound of formula I



Formula I

wherein R is naphthyl; phenoxyphenyl; benzyloxyphenyl; (dichloro)benzyloxyphenyl; piperonyl; naphthylmethyl; or naphthoxymethyl.

62. A compound of claim 61, wherein R is naphthyl.

63. A compound of claim 61, wherein R is naphthylmethyl.

64. A composition comprising the compound of any one of claims 61-63 and a carrier.

65. A pharmaceutical composition comprising the compound of any one of claims 61-63 and a carrier.

66. A method of disrupting transformation in a cell that expresses a mutant protein kinase comprising contacting the cell with an inhibitor of claim 61.

67. A method of inhibiting phosphorylation of a substrate of a mutant protein kinase comprising incubating an inhibitor of claim 61 with a mixture containing the mutant protein kinase and its substrate.
68. A method of inhibiting a catalytic activity of a mutant enzyme comprising incubating the mutant enzyme with an inhibitor of claim 61.
69. The method of claim 68, wherein the mutant enzyme is a mutant methyltransferase.
70. The method of claim 68, wherein the mutant enzyme is a mutant protein kinase.
71. A method of inhibiting growth of a cell that expresses a mutant enzyme comprising incubating the cell with an inhibitor of claim 61.
72. A method of claim 71, wherein the mutant enzyme is a mutant protein kinase.
73. The method of any one of claims 66, 67, 70, or 72, wherein the mutant protein kinase is a mutant protein kinase of the Src family.
74. A protein kinase inhibitor that does not inhibit a catalytic activity of a wild-type protein kinase but inhibits the same catalytic activity of the corresponding mutant protein kinase, wherein the wild-type protein kinase and the mutant protein kinase have the same function.
75. The protein kinase inhibitor of claim 74, wherein the protein kinase inhibitor inhibits the catalytic activity of the mutant protein kinase with an IC_{50} of less than about 200 nM.
76. A method of inhibiting a catalytic activity of a mutant protein kinase comprising contacting the mutant protein kinase with the protein kinase inhibitor of claim 74.